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FINAL TECHNICAL REPORT

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INSTITUTION: NASA-Goddard
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PROJECT TITLE: *The X-ray Structure of Centaurus A:
The Nearest Jet and It's Host Galaxy*

This grant was in partial support of the analysis and interpretation of data from a ROSAT observing program, in which both HRI and PSPC data were obtained. Analysis of the HRI data provided more detailed morphology of the jet as compared with the older Einstein data. The inner jet morphology now appears very similar to the radio jet morphology. There is also indication of spectral hardness changes across the jet. This result formed the basis for a successful HST observing proposal. In addition, we joined in an A05 proposal for a much longer HRI observation of Cen A. It was decided to wait for the reprocessed data, and possibly the follow-up data set (and a research leave), before publishing the results. At the current time, the Rev2 processed data from the initial observation have just been received. This data set will be reanalyzed and then compared with the optical and follow-up x-ray observations.

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